

Morgan Electro Ceramics

232 Forbes Road
Bedford
Ohio 44146-5418
USA

Tel: (440) 232-8600
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www.morganelectroceramics.com

March 10, 2000

Mr. William MacDowell
Chief - Air Enforcement Section
USEPA Region 5
77 West Jackson Blvd. AE-17J
Chicago, Il. 60604-3507

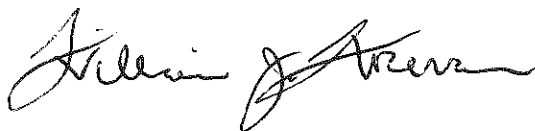
SUBJECT: Annual Report for Halogenated Solvent Cleaning Machines

Dear Mr. MacDowell:

Enclosed please find the Annual Report for Halogenated Solvent Cleaning Machines subject to the Halogenated Solvent Cleaner NESHAP (40 CFR 63 Subpart T) at the Morgan Electro Ceramics, Bedford, Ohio facility.

Thank you for your consideration in this matter. If you have any questions regarding this correspondence, please contact me at (440) 232-8600.

Sincerely,



William J. Hocevar, P.E.
Facility Manager

Enclosure

cc: Ed Fasko, Chief-Cleveland Air Pollution Control Division

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AIR ENFORCEMENT BRANCH,
U. S. EPA, REGION 5



HALOGENATED SOLVENT CLEANER NESHAP – ANNUAL REPORT

FACILITY INFORMATION

Company Name	Morgan Electro Ceramics
Mailing Address	232 Forbes Road Bedford, Ohio 44146
Equipment Location Address	Same as mailing address.
Ohio EPA Facility ID.	13-18-03-1627

SOLVENT MACHINE INFORMATION

Ohio EPA ID	L001
Description of source	Solvent vapor degreaser using perchloroethylene
Make/Model	Baron Blakeslee / Model MLR-280LE
Initial Startup date	October 7, 1998 (Replacement in kind of old machine)
Type of Machine	Batch vapor
Solvent/Air Interface Area	4.67 (square ft)
Machine Controls	Freeboard Ratio 1.00 Freeboard refrigeration device Super-heated vapor Working-mode cover
Method of Compliance	Alternative standard 40 CFR 63.464
Overall Average Monthly Consumption	123 (lb. of solvent)
3-Month Rolling Average Emission Estimates*	51 lb/month/sq. ft. surface area) From: 12/31/99; To: 10/01/99
3-Month Rolling Average Emission Estimates*	20.23 (lb/month/sq. ft. surface area) From: 9/30/99; To: 07/01/99
3-Month Rolling Average Emission Estimates*	16.4 (lb/month/sq. ft. surface area) From: 06/30/99; To: 04/01/99

* Calculation method and results are attached.

Person preparing report:	Hocevar	William	J.
	<i>Last Name</i>	<i>First Name</i>	<i>Middle Initial</i>
Title:	Facility Manager		
Date prepared:	March 10, 2000		

HALOGENATED SOLVENT CLEANER NESHAP – ANNUAL REPORT

FACILITY INFORMATION

Company Name	Morgan Electro Ceramics
Mailing Address	232 Forbes Road Bedford, Ohio 44146
Equipment Location Address	Same as mailing address.
Ohio EPA Facility ID.	13-18-03-1627

SOLVENT MACHINE INFORMATION

Ohio EPA ID	P009 -A
Description of source	Solvent vapor degreaser using perchloroethylene
Make/Model	Baron Blakeslee / Model MLR-120
Initial Startup date	September 1, 1998
Type of Machine	Batch vapor
Solvent/Air Interface Area	2.01 (square ft)
Machine Controls	Freeboard Ratio 1.00 Freeboard refrigeration device Working-mode cover
Method of Compliance	Alternative standard 40 CFR 63.464
Overall Average Monthly Consumption	2.25 (lb. of solvent)
3-Month Rolling Average Emission Estimates*	2.23 (lb/month/sq. ft. surface area) From: 12/31/99; To: 10/01/99
3-Month Rolling Average Emission Estimates*	0.00 (lb/month/sq. ft. surface area) From: 9/30/99; To: 07/01/99
3-Month Rolling Average Emission Estimates*	0.00 (lb/month/sq. ft. surface area) From: 06/30/99; To: 04/01/99

* Calculation method and results are attached.

Person preparing report:	Hocevar	William	J.
	<i>Last Name</i>	<i>First Name</i>	<i>Middle Initial</i>
Title:	Facility Manager		
Date prepared:	March 10, 2000		

HALOGENATED SOLVENT CLEANER NESHAP – ANNUAL REPORT

FACILITY INFORMATION

Company Name	Morgan Electro Ceramics
Mailing Address	232 Forbes Road Bedford, Ohio 44146
Equipment Location Address	Same as mailing address.
Ohio EPA Facility ID.	13-18-03-1627

SOLVENT MACHINE INFORMATION

Ohio EPA ID	P009 -B
Description of source	Solvent vapor degreaser using perchloroethylene
Make/Model	Baron Blakeslee / Model MLR-216
Initial Startup date	September 1, 1998
Type of Machine	Batch vapor
Solvent/Air Interface Area	4.00 (square ft)
Machine Controls	Freeboard Ratio 1.00 Freeboard refrigeration device Working-mode cover
Method of Compliance	Alternative standard 40 CFR 63.464
Overall Average Monthly Consumption	30.4 (lb. of solvent)
3-Month Rolling Average Emission Estimates*	2.23 (lb/month/sq. ft. surface area) From: 12/31/99; To: 10/01/99
3-Month Rolling Average Emission Estimates*	13.4 (lb/month/sq. ft. surface area) From: 9/30/99; To: 07/01/99
3-Month Rolling Average Emission Estimates*	11.23 (lb/month/sq. ft. surface area) From: 06/30/99; To: 04/01/99

* Calculation method and results are attached.

Person preparing report:	<u>Hocevar</u>	<u>William</u>	<u>J.</u>
	<i>Last Name</i>	<i>First Name</i>	<i>Middle Initial</i>
Title:	<u>Facility Manager</u>		
Date prepared:	<u>March 10, 2000</u>		

HALOGENATED SOLVENT CLEANER NESHAP – ANNUAL REPORT

FACILITY INFORMATION

Company Name	Morgan Electro Ceramics
Mailing Address	232 Forbes Road Bedford, Ohio 44146
Equipment Location Address	Same as mailing address.
Ohio EPA Facility ID.	13-18-03-1627

SOLVENT MACHINE INFORMATION

Ohio EPA ID	P019
Description of source	Solvent vapor degreaser using perchloroethylene
Make/Model	Finishing Equipment, S/N 6342
Initial Startup date	August 1, 1999 (Replacement in kind of old machine)
Type of Machine	Batch vapor
Solvent/Air Interface Area	5.00 (square ft)
Machine Controls	Freeboard Ratio 1.00 Freeboard refrigeration device Working-mode cover
Method of Compliance	Alternative standard 40 CFR 63.464
Overall Average Monthly Consumption	135 (lb. of solvent)
3-Month Rolling Average Emission Estimates*	13.5 (lb/month/sq. ft. surface area) From: 12/31/99; To: 10/01/99
3-Month Rolling Average Emission Estimates*	18.9 (lb/month/sq. ft. surface area) From: 9/30/99; To: 07/01/99
3-Month Rolling Average Emission Estimates*	36.9 (lb/month/sq. ft. surface area) From: 06/30/99; To: 04/01/99

* Calculation method and results are attached.

Person preparing report:	Hocevar	William	J.
	<i>Last Name</i>	<i>First Name</i>	<i>Middle Initial</i>
Title:	Facility Manager		

Date prepared:	March 10, 2000
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Monthly Halogenated Solvent Emissions Calculations Worksheet

Facility Name:

Morgan Matroc, Inc.

EPA Facility ID:

1318031627

Unit Name:

Baron Blakeslee MLR-280LE

Company I.D.:

VPD-34

Ohio EPA I.D.:

L001

Month:

December

Year:

1999

Unit Information

Tank Length (inside)

3.50

(feet)

Tank Width (inside)

1.33

(feet)

Tank Surface Area (s.a.)

4.67

(feet)²

Solvent Usage Information			Formulas / Notes
1 Type Solvent Used	<i>Perchloroethylene</i>		
2 S.G. of Solvent	<i>1.62</i>		[From MSDS]
3 Solvent Density	<i>13.51</i>	(lb/gallon)	[From MSDS]
4 Solvent Added	<i>12.0</i>	(gallon)	[From monthly log]
5 Waste Removed	<i>0.0</i>	(gallon)	[From monthly log]
6 % Solvent in waste		(%)	[From analytical report]
7 Solvent Removed in waste	<i>0.0</i>	(gallon)	[gal. Waste] * [% solvent]
8 Pure Solvent Removed	<i>0.0</i>	(gallon)	[From monthly log]
9 Total Solvent Removed	<i>0.0</i>	(gallon)	[7 + 8]
10 Total Solvent Emitted	<i>12.0</i>	(gallon)	[4 + 9]
11 Total Solvent Emitted	<i>162.1</i>	(lbs)	[10 * 3]
Monthly Emissions			
Average Solvent Emission Rate	<i>34.74205714</i>	(lb/month/ft ² s.a.)	[11 / (tank surface area)]
Average Solvent Allowable Rate	<i>30.6</i>	(lb/month/ft ² s.a.)	From 40 CFR 63, Subpart T
Note: If ave. solvent emission rate is < 30.6 lb/month/ft ² , NO action is required. If ave. solvent emission rate is > 30.6 lb/month/ft ² , Note in quarterly exceedance report.			
Three Month Rolling Average			
3 - Month Average Solvent Emission Rate	<i>51</i>	(lb/month/ft ² s.a.)	[Average of three previous months solvent emission rates]

Monthly Halogenated Solvent Emissions Calculations Worksheet

Facility Name:

Morgan Matroc, Inc.

EPA Facility ID:

1318031627

Unit Name:

Baron Blakeslee MLR-120

Company I.D.:

VPD-6A

Ohio EPA I.D.:

P009

Month:

December

Year:

1999

Unit Information

Tank Length (inside)

1.67

(feet)

Tank Width (inside)

1.21

(feet)

Tank Surface Area (s.a.)

2.01

(feet)²

Solvent Usage Information

1 Type Solvent Used	<i>Perchloroethylene</i>	
2 S.G. of Solvent	<i>1.62</i>	
3 Solvent Density	<i>13.51</i>	(lb/gallon)
4 Solvent Added	<i>0.0</i>	(gallon)
5 Waste Removed	<i>0.0</i>	(gallon)
6 % Solvent in waste		(%)
7 Solvent Removed in waste	<i>0.0</i>	(gallon)
8 Pure Solvent Removed	<i>0.0</i>	(gallon)
9 Total Solvent Removed	<i>0.0</i>	(gallon)
10 Total Solvent Emitted	<i>0.0</i>	(gallon)
11 Total Solvent Emitted	<i>0.0</i>	(lbs)

Formulas / Notes

[From MSDS]

[From MSDS]

[From monthly log]

[From monthly log]

[From analytical report]

[gal. Waste] * [% solvent]

[From monthly log]

[7 + 8]

[4 + 9]

[10 * 3]

Monthly Emissions

Average Solvent
Emission Rate

0

(lb/month/
ft² s.a.)

[11 / (tank surface area)]

Average Solvent
Allowable Rate

30.6

(lb/month/
ft² s.a.)

From 40 CFR 63, Subpart T

Note: If ave. solvent emission rate is < 30.6 lb/month/ft², NO action is required.

If ave. solvent emission rate is > 30.6 lb/month/ft², Note in quarterly exceedance report.

Three Month Rolling Average

3 - Month Average

Solvent Emission Rate

2.233333333

(lb/month/
ft² s.a.)

[Average of three previous

months solvent emission rates]

Monthly Halogenated Solvent Emissions Calculations Worksheet

Facility Name:

Morgan Matroc, Inc.

EPA Facility ID:

1318031627

Unit Name:

Baron Blakeslee MLR-216

Company I.D.:

VPD-6B

Ohio EPA I.D.:

P009

Month:

December

Year:

1999

Unit Information

Tank Length (inside)

3.00 (feet)

Tank Width (inside)

1.33 (feet)

Tank Surface Area (s.a.)

4.00 (feet)²

Solvent Usage Information			Formulas / Notes
1 Type Solvent Used	<i>Perchloroethylene</i>		
2 S.G. of Solvent	<i>1.62</i>		[From MSDS]
3 Solvent Density	<i>13.51</i>	(lb/gallon)	[From MSDS]
4 Solvent Added	<i>0.0</i>	(gallon)	[From monthly log]
5 Waste Removed	<i>0.0</i>	(gallon)	[From monthly log]
6 % Solvent in waste		(%)	[From analytical report]
7 Solvent Removed in waste	<i>0.0</i>	(gallon)	[gal. Waste] * [% solvent]
8 Pure Solvent Removed	<i>0.0</i>	(gallon)	[From monthly log]
9 Total Solvent Removed	<i>0.0</i>	(gallon)	[7 + 8]
10 Total Solvent Emitted	<i>0.0</i>	(gallon)	[4 + 9]
11 Total Solvent Emitted	<i>0.0</i>	(lbs)	[10 * 3]
Monthly Emissions			
Average Solvent Emission Rate	<i>0</i>	(lb/month/ft ² s.a.)	[11 / (tank surface area)]
Average Solvent Allowable Rate	<i>30.6</i>	(lb/month/ft ² s.a.)	From 40 CFR 63, Subpart T
Note: If ave. solvent emission rate is < 30.6 lb/month/ft ² , NO action is required. If ave. solvent emission rate is > 30.6 lb/month/ft ² , Note in quarterly exceedance report.			
Three Month Rolling Average			
3 - Month Average Solvent Emission Rate	<i>2.23333333</i>	(lb/month/ft ² s.a.)	[Average of three previous months solvent emission rates]

Monthly Halogenated Solvent Emissions Calculations Worksheet

Facility Name:

Morgan Matroc, Inc.

EPA Facility ID:

1318031627

Unit Name:

Finishing Equipment, S/N 6342

Company I.D.:

VPD-24

Ohio EPA I.D.:

P019

Month:

December

Year:

1999

Unit Information

Tank Length (inside)

3.33

(feet)

Tank Width (inside)

1.50

(feet)

Tank Surface Area (s.a.)

5.00

(feet)²

Solvent Usage Information			Formulas / Notes
1 Type Solvent Used	Perchloroethylene		
2 S.G. of Solvent	1.62		[From MSDS]
3 Solvent Density	13.51	(lb/gallon)	[From MSDS]
4 Solvent Added	0.0	(gallon)	[From monthly log]
5 Waste Removed	0.0	(gallon)	[From monthly log]
6 % Solvent in waste		(%)	[From analytical report]
7 Solvent Removed in waste	0.0	(gallon)	[gal. Waste] * [% solvent]
8 Pure Solvent Removed	0.0	(gallon)	[From monthly log]
9 Total Solvent Removed	0.0	(gallon)	[7 + 8]
10 Total Solvent Emitted	0.0	(gallon)	[4 + 9]
11 Total Solvent Emitted	0.0	(lbs)	[10 * 3]
Monthly Emissions			
Average Solvent Emission Rate	0	(lb/month/ft ² s.a.)	[11 / (tank surface area)]
Average Solvent Allowable Rate	30.6	(lb/month/ft ² s.a.)	From 40 CFR 63 , Subpart T
Note: If ave. solvent emission rate is < 30.6 lb/month/ft ² , NO action is required.			
If ave. solvent emission rate is > 30.6 lb/month/ft ² , Note in quarterly exceedance report.			
Three Month Rolling Average			
3 - Month Average Solvent Emission Rate	13.5	(lb/month/ft ² s.a.)	[Average of three previous months solvent emission rates]